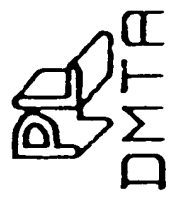
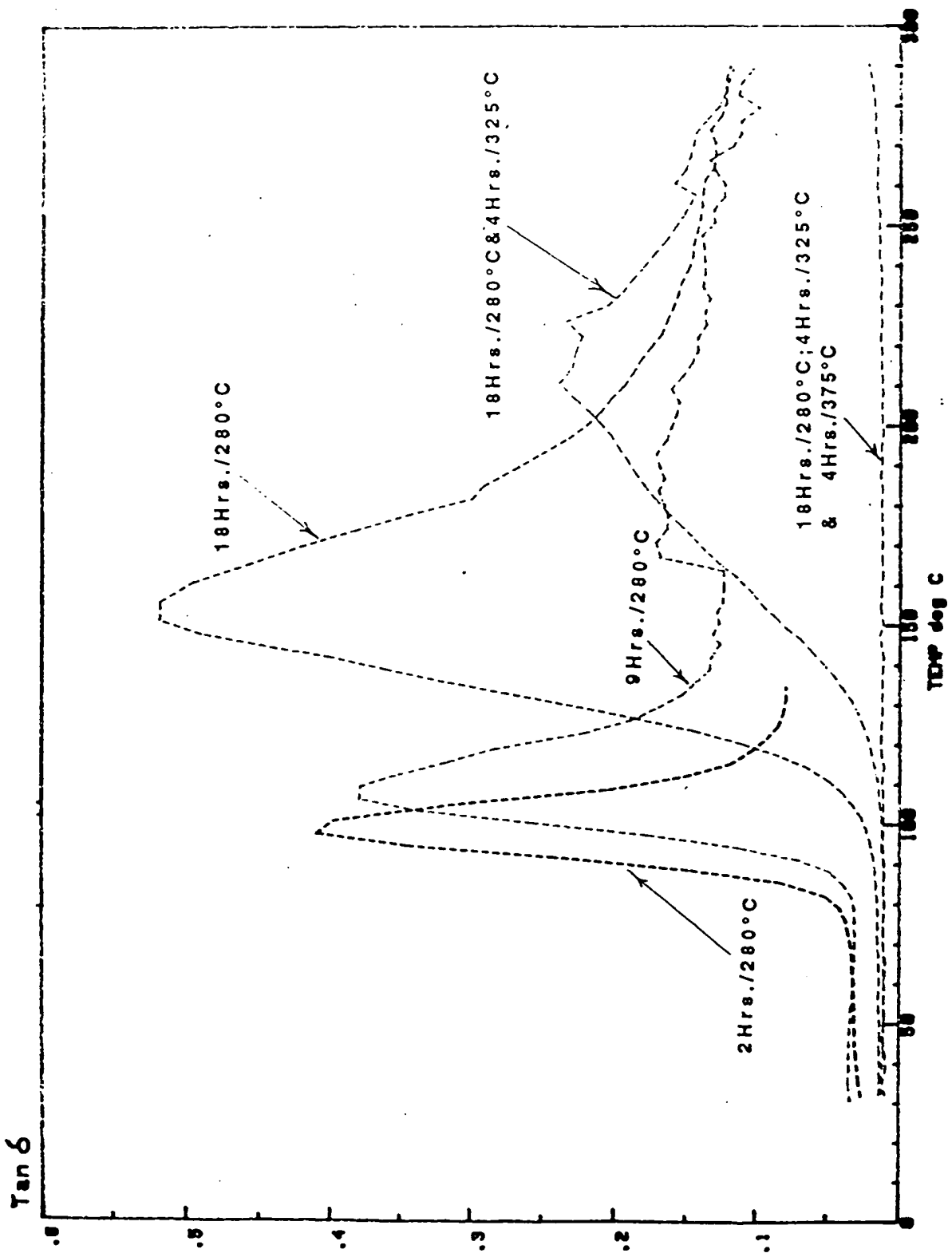


4684L 2M

00845897 042897
268240 26854880



1 Hz

0.1, 1 & 10
STRAIN max 4
2 degC/min
-LOCK = 2.818
DUP. CONT
4.888900032E-004

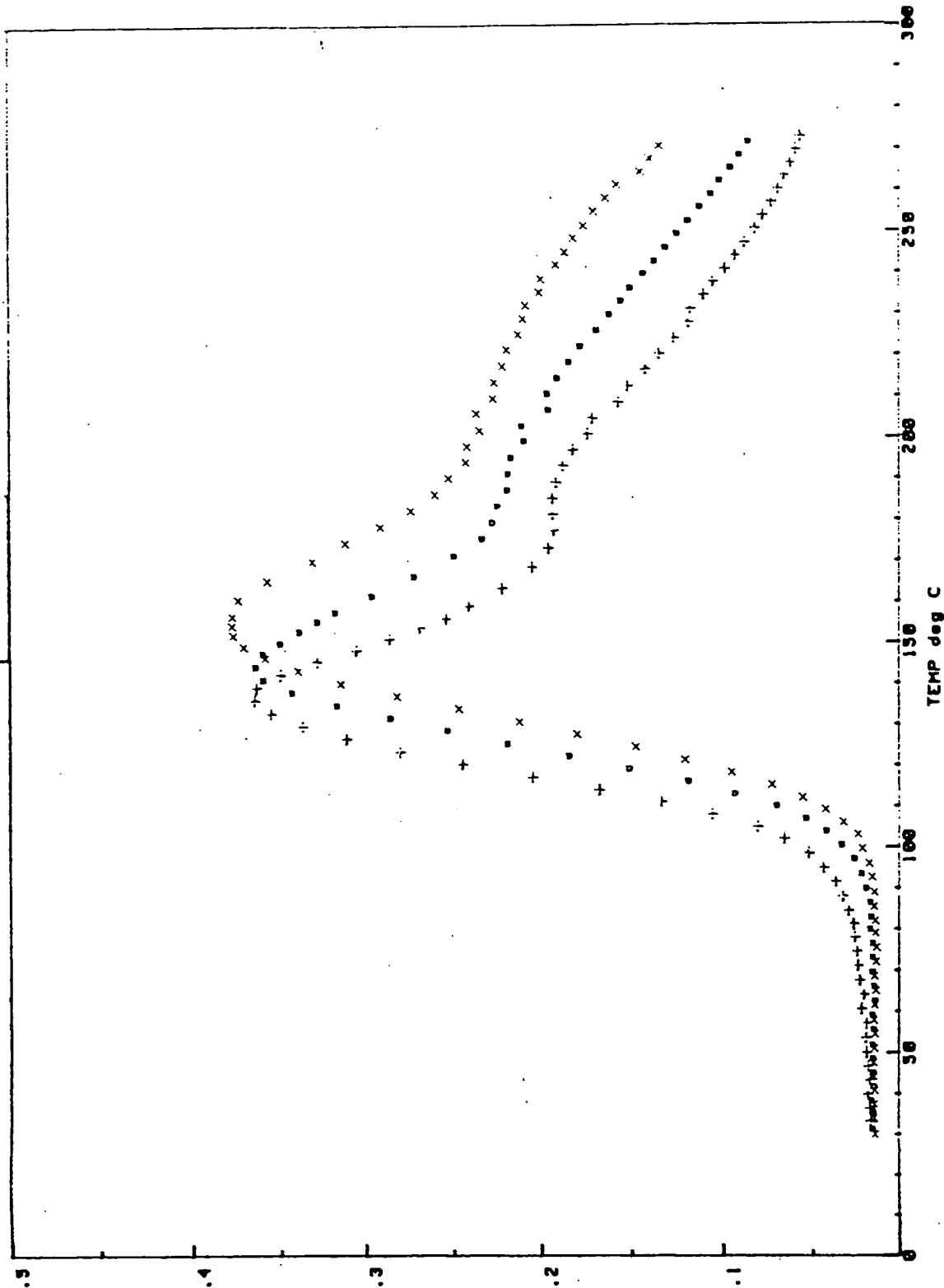
T B.F

Best Available Copy

268240" 26854830

Cu-Ph
9H0280C

Tan δ



PL
DMTA

x 10 Hz
□ 1 Hz
+ .1 Hz

0.1, 1 & 10
STRAIN = 4
2 degC/min
-LOCK = 2.62
DUAL CANT
4.49x9.98x7mm

Fig. 2

268240" 26854880

Cu-Ph
16H0280C; 4H0325C

Tan δ

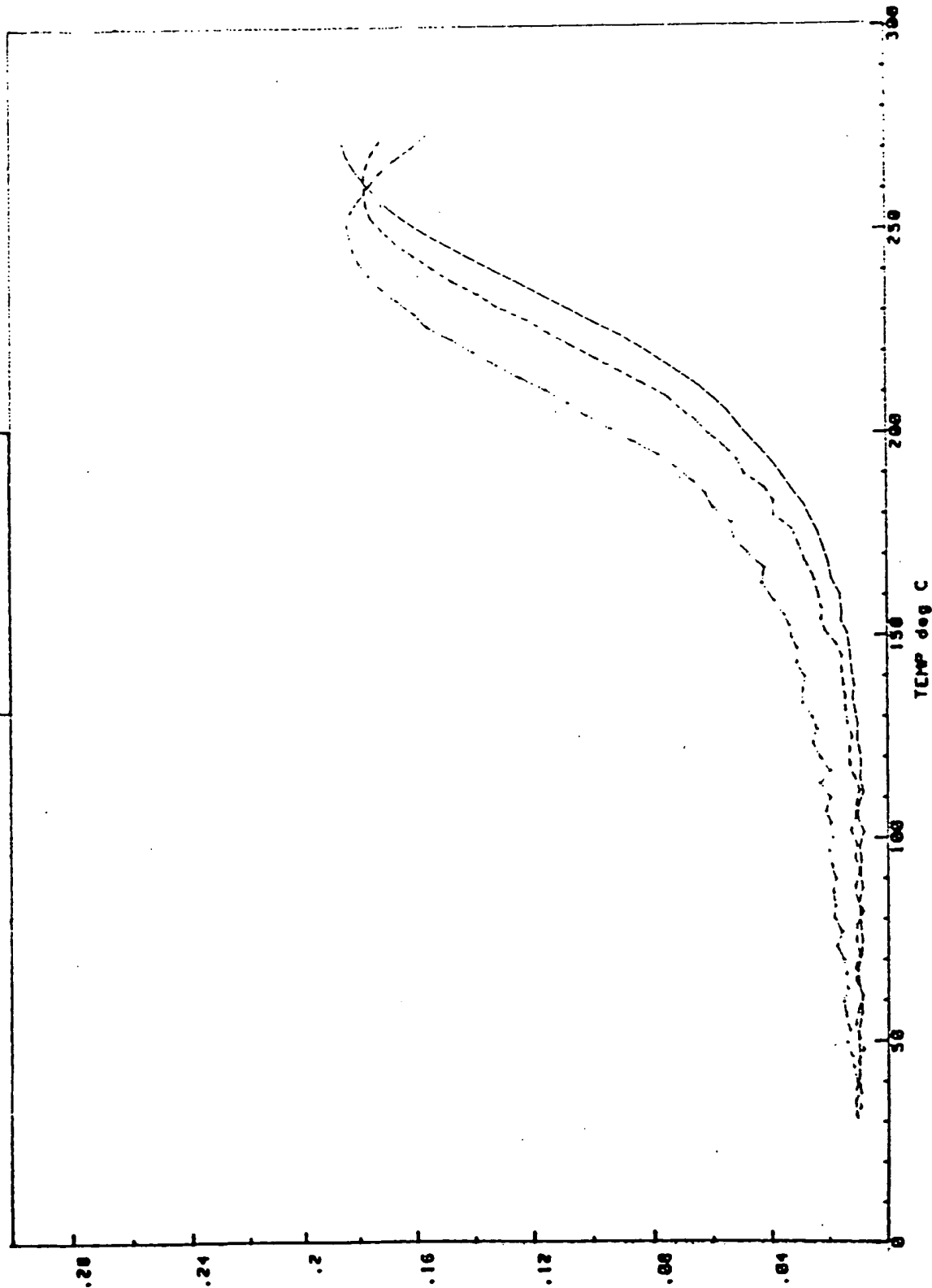
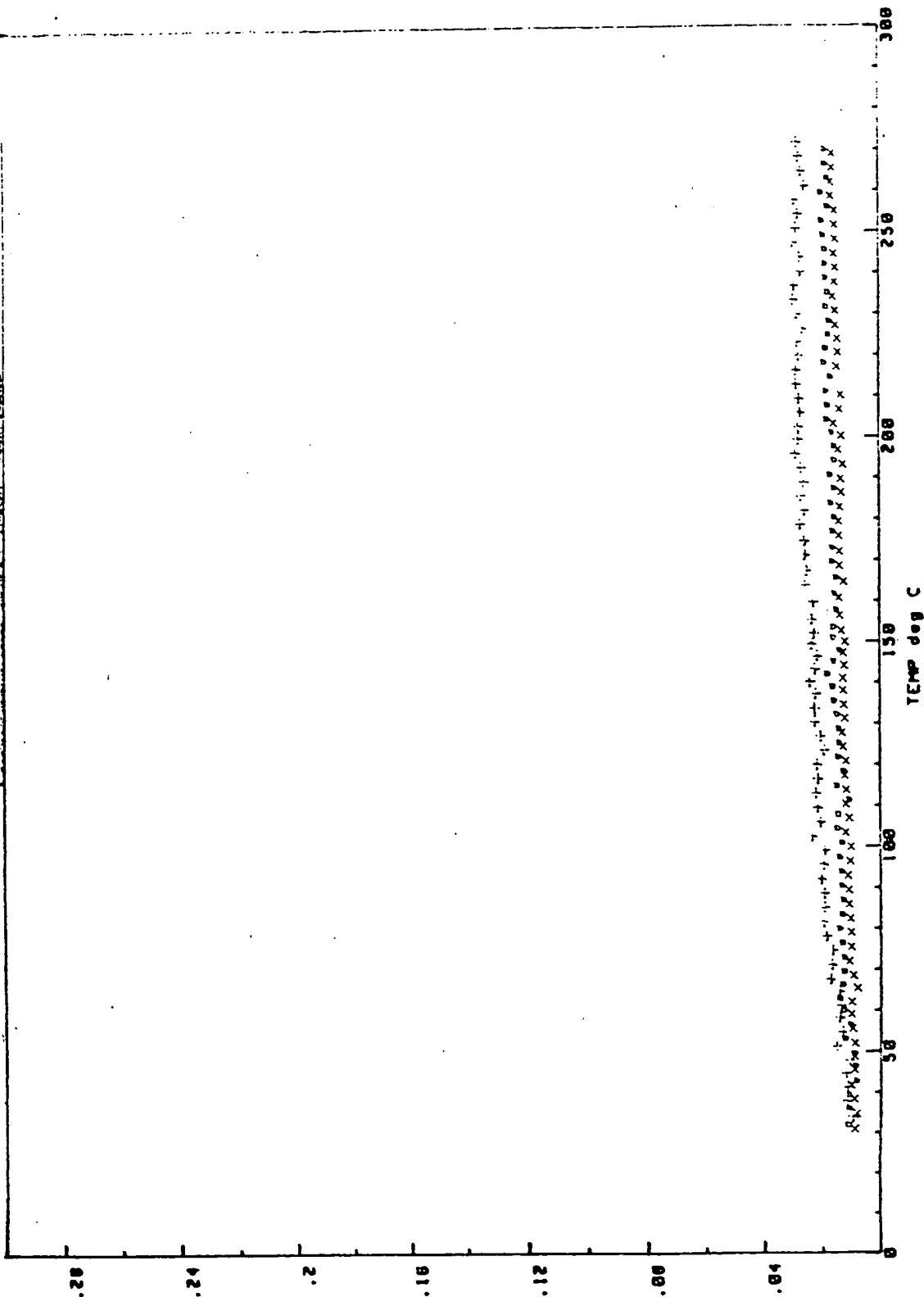


Fig. 3

084597-04887
768240-76854880

Cu-Ph
16H0280C;4H0325C;4H0375C

Tan δ



DMTA

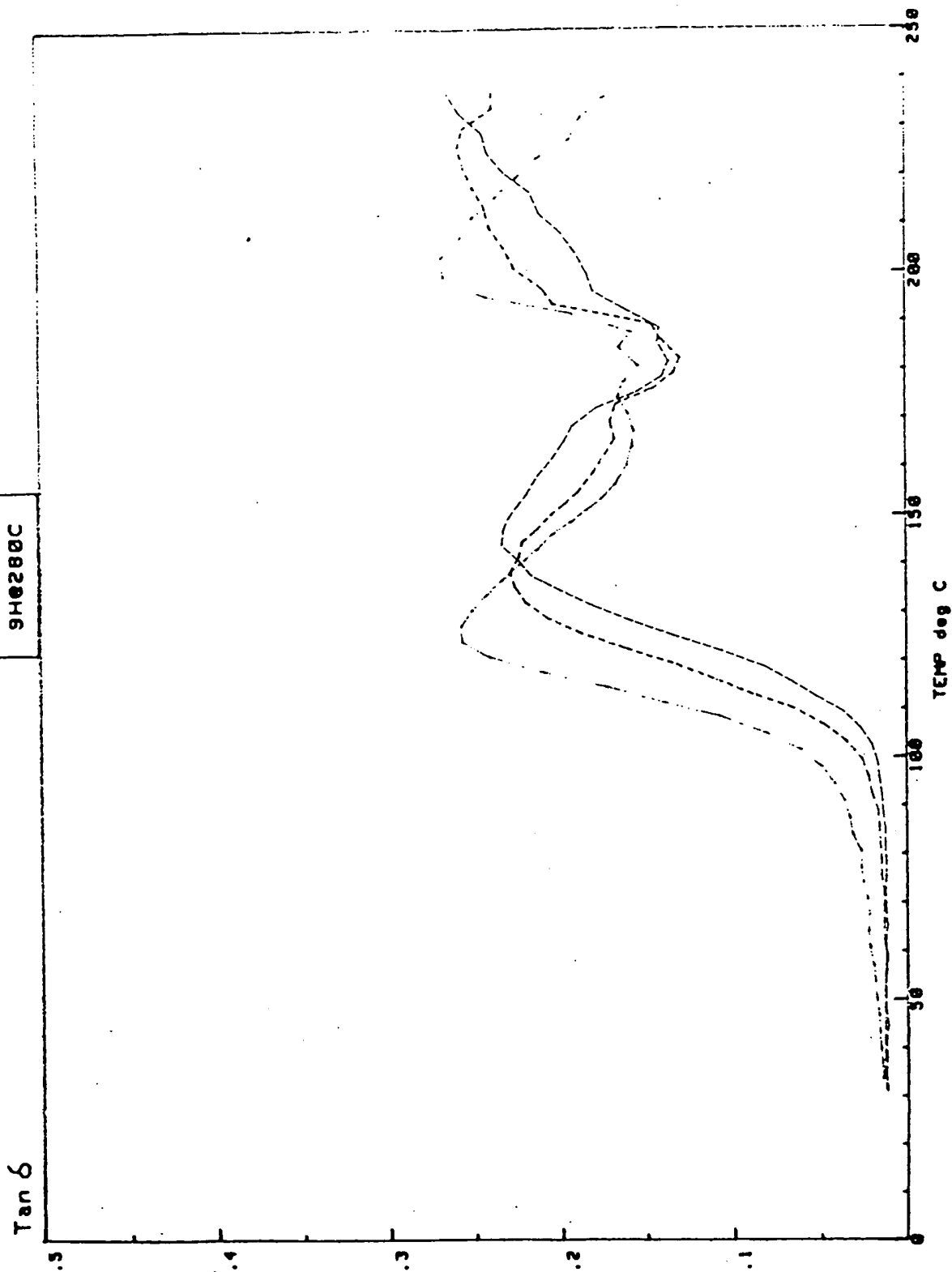
x 10 Hz
o 1 Hz
+ .1 Hz

0.1, 1 & 10
STRAIN = .04
2 degC/min
-LOCK = 2.583
DUAL CANT
4.21x9.77x7mm

Fig. 4

06845897 042897 468240 46854880

Ti-Ph
9H0200C



PL

DMTA

--- 10 Hz

- - - 1 Hz

- . - . 0.1 Hz

0.1, 1 & 10

STRAIN = 4

2 degC/min

-LOG α = 2.689

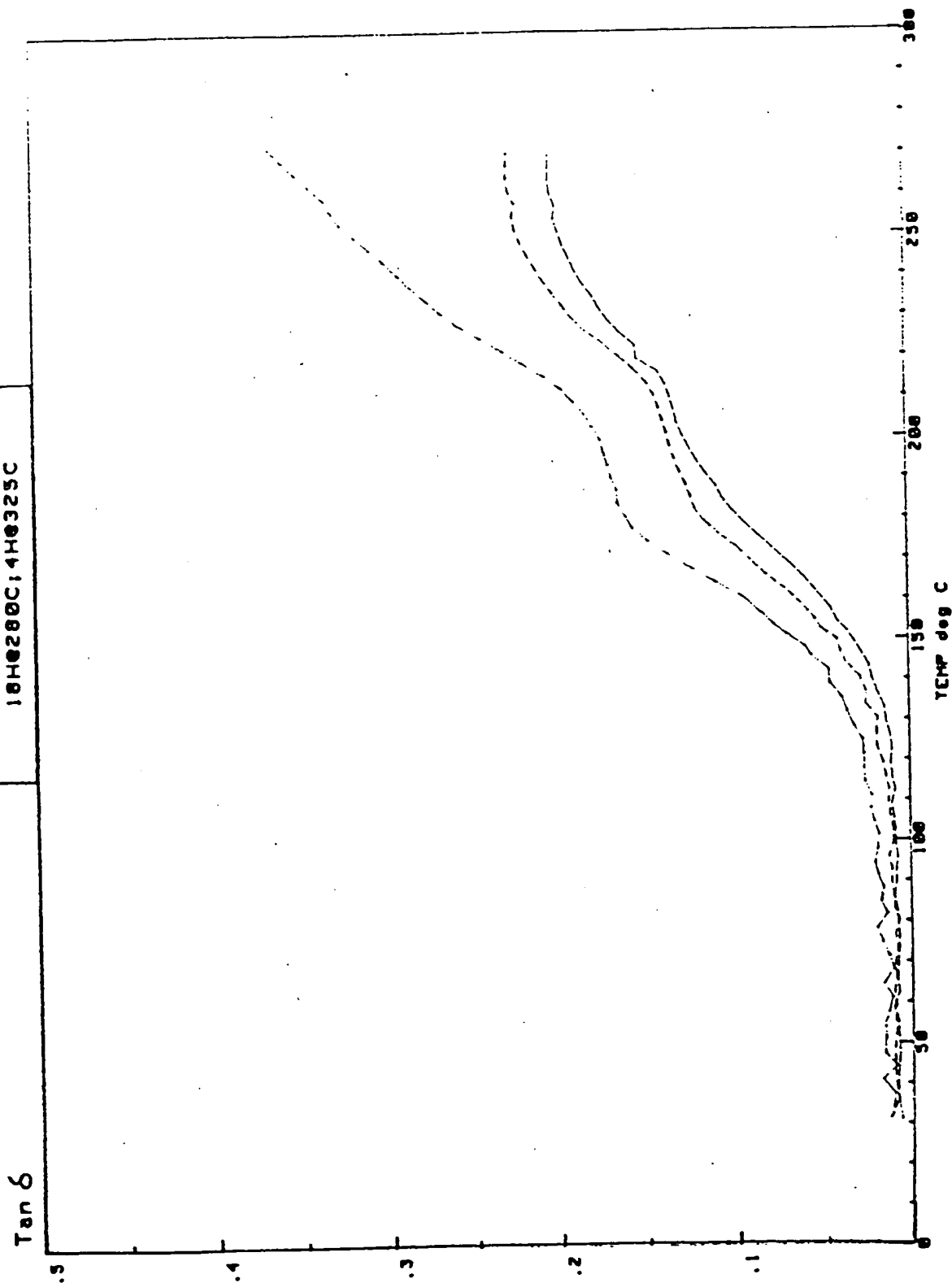
DUAL CANT

4.54x10.81x7mm

Fig. 5

084597 0429 268240 26854880

Ph/Ti Composite
10H0280C;4H0325C



DMTA

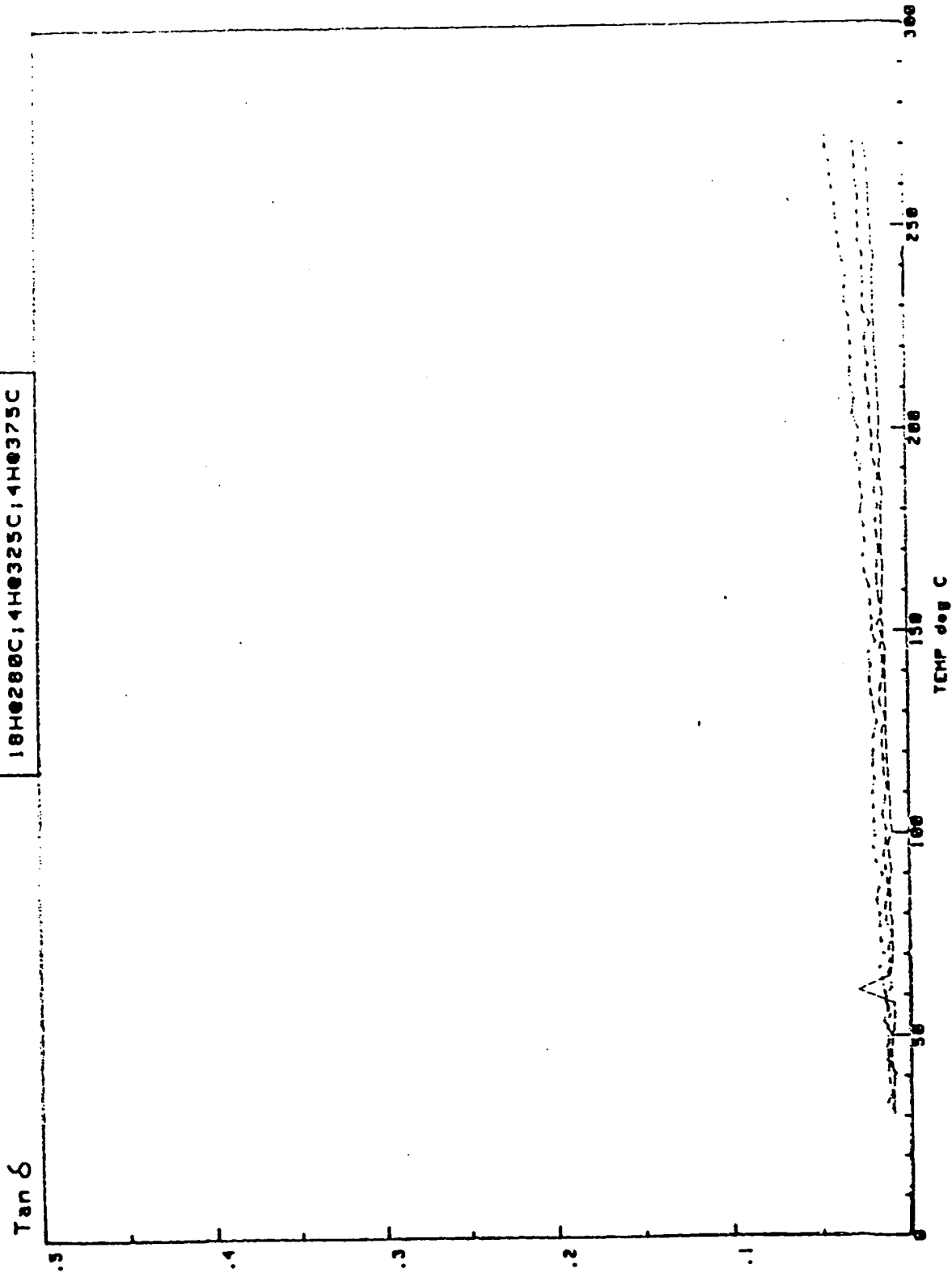
--- 10 Hz
--- 1 Hz
--- 0.1 Hz

0.1, 1 & 10
STRAIN = 0.4
2 degC/min
-LOGA = 2.613
DUAL CANT
4.51x10x7mm

Fig. 6

268240" 26854880

Ph/Ti Composite
18H0200C;4H0325C;4H0375C



PL DMTA

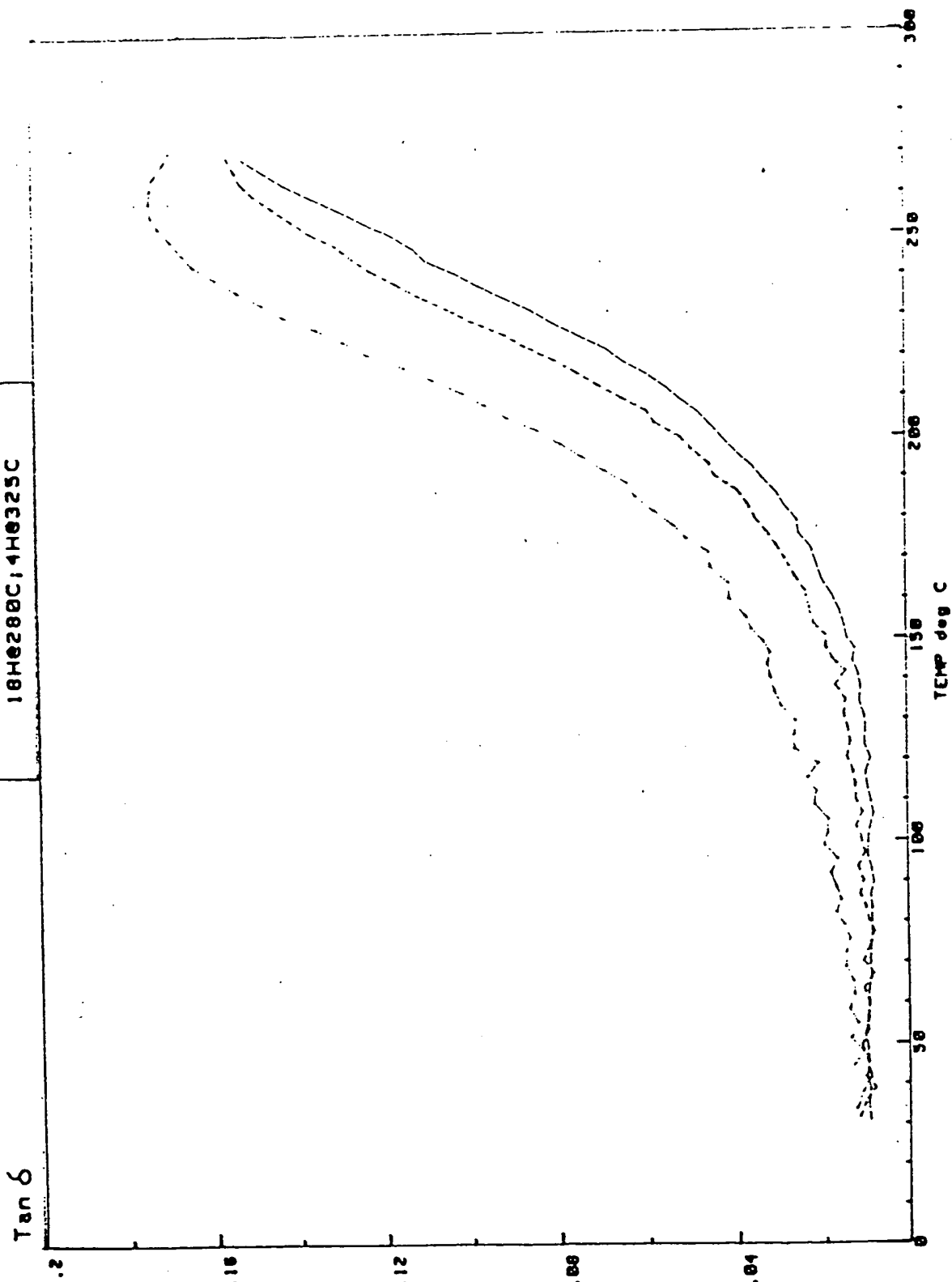
--- 10 Hz
--- 1 Hz
--- 0.1 Hz

0.1, 1 & 10
STRAIN = 0.4
2 degC/min
-LOCK = 2.611
DUAL CANT
4.53x10x7mm

Fig. 7

468240" 46854880

Ph/Zn Composite
18He280C14He325C



DMTA

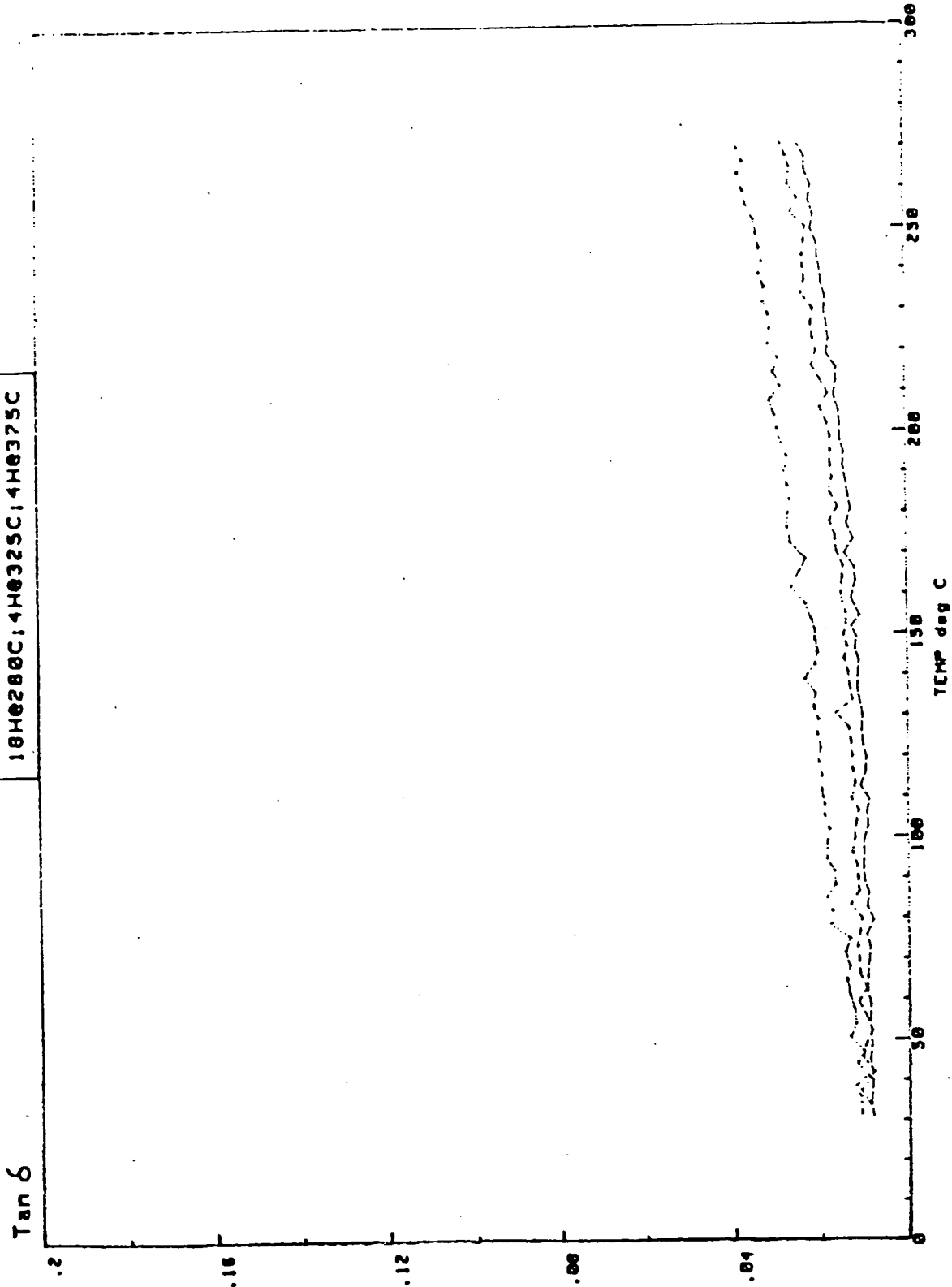
--- 10 Hz
-- 1 Hz
... 0.1 Hz

8.1, 1 & 10
STRAIN = 4
2 degC/min
-LOGk = 2.615
DUAL CANT
4.51x18x7mm

Fig. 8

768240" 76854880

Ph/Zn Composite
18H0280C;4H0325C;4H0375C



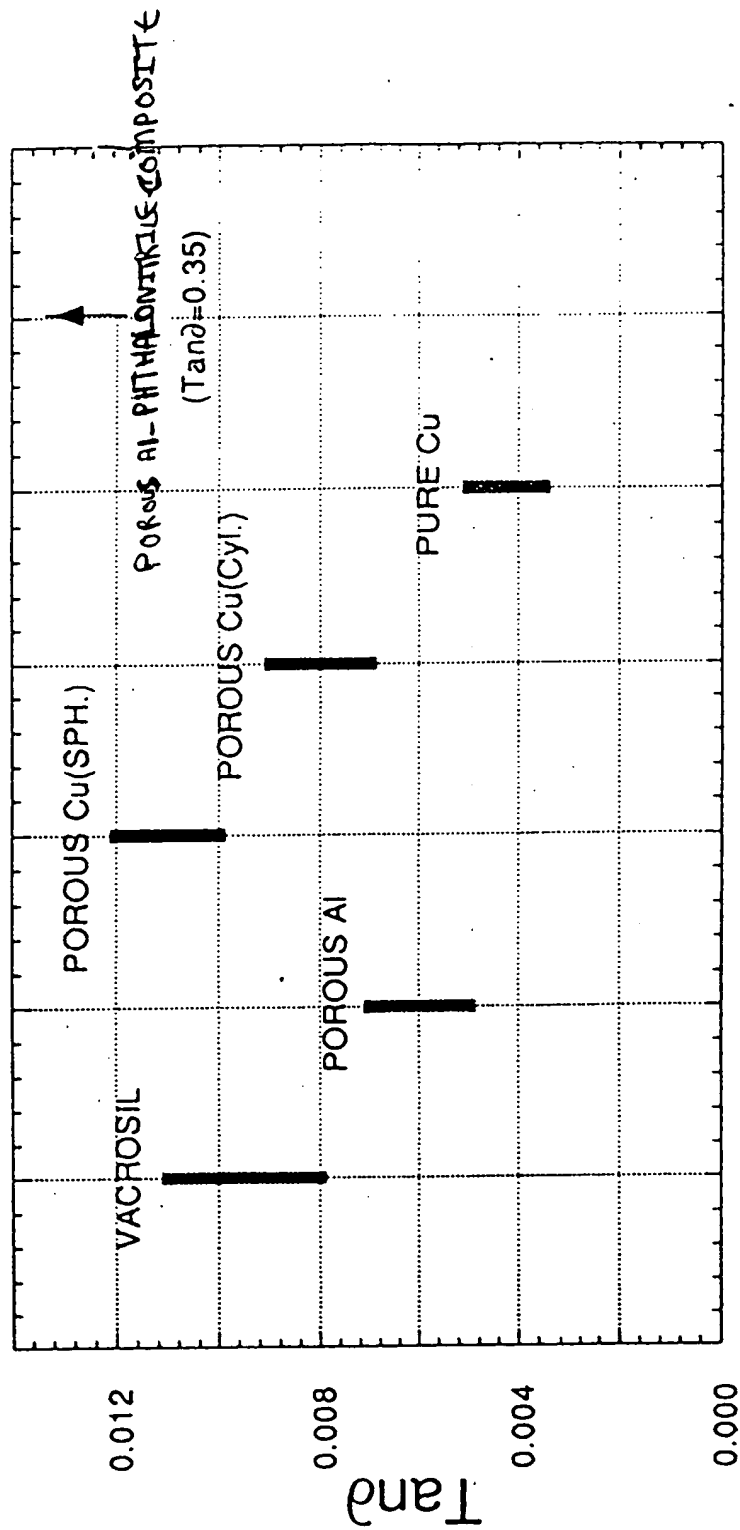
DMTA

----- 10 Hz
----- 1 Hz
----- 0.1 Hz

0.1, 1 & 10
STRAIN = 0.4
2 degC/min
-LOCK = 2.615
DUAL CANT
4.51x10⁻⁷ mm

Fig. 9

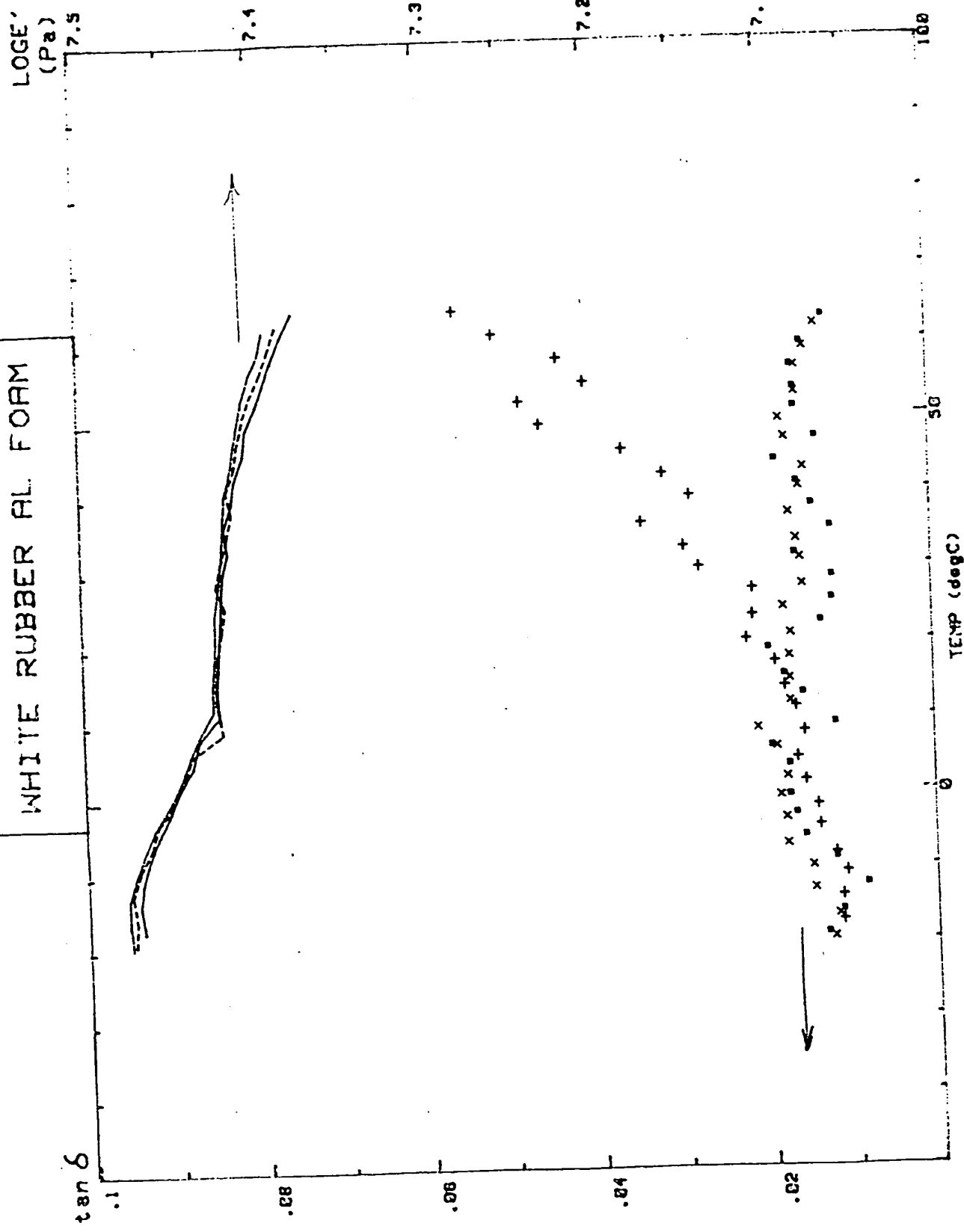
Tan δ Over Frequency Range of 0.1 to 10 Hz



MATERIALS

468240-46854880

WHITE RUBBER AL FORM



DMTA

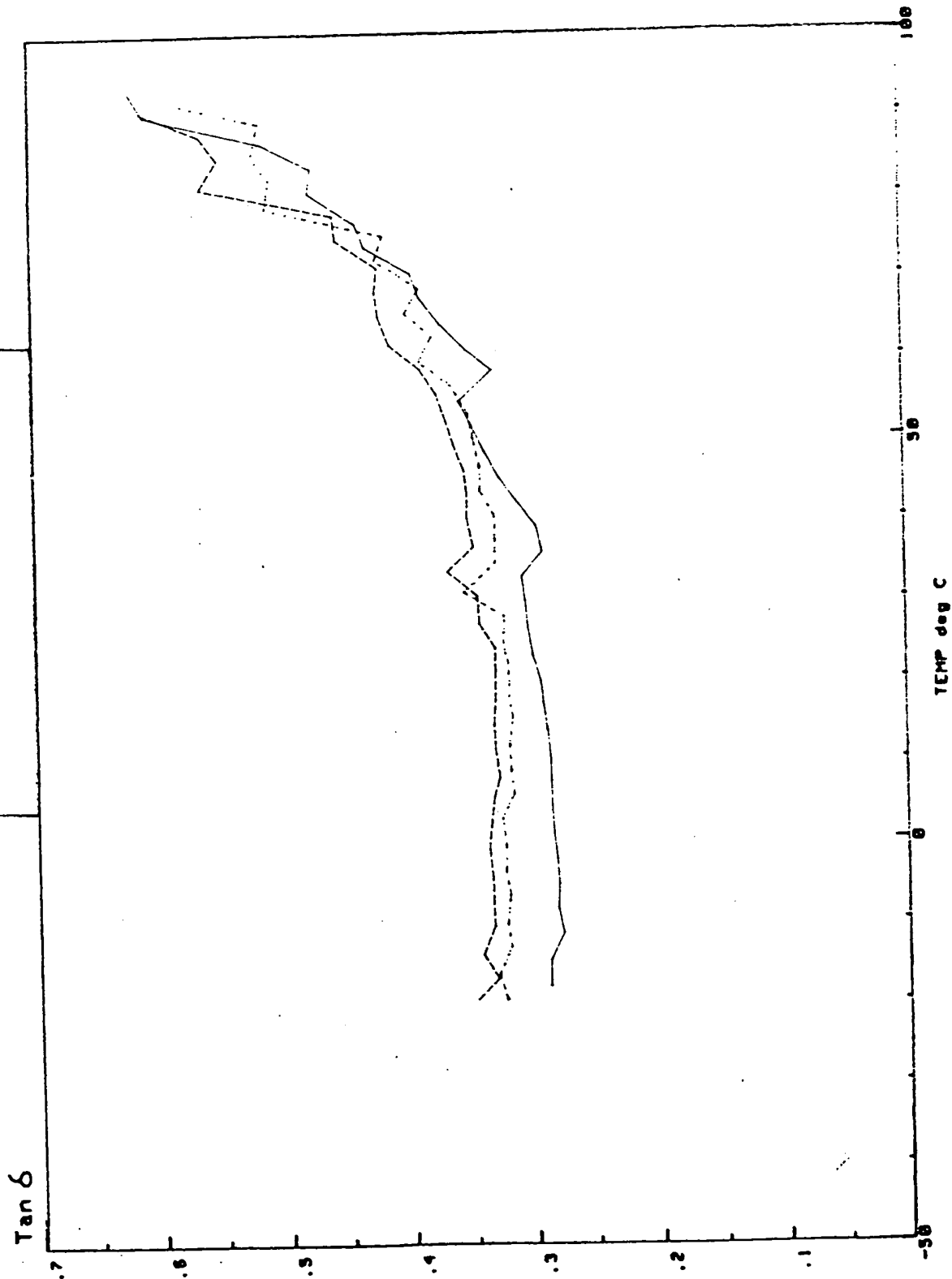
x 10 Hz
 o 1 Hz
 + .1 Hz

8.1, 1 & 10
 STRAIN
 2 degC/min
 -LOGk= 3.814
 SINGLE CRNT
 4.8x11.27x18

Fig. 11

468240" 46854880

RED RUBBER AL FORM



PL
DMTA

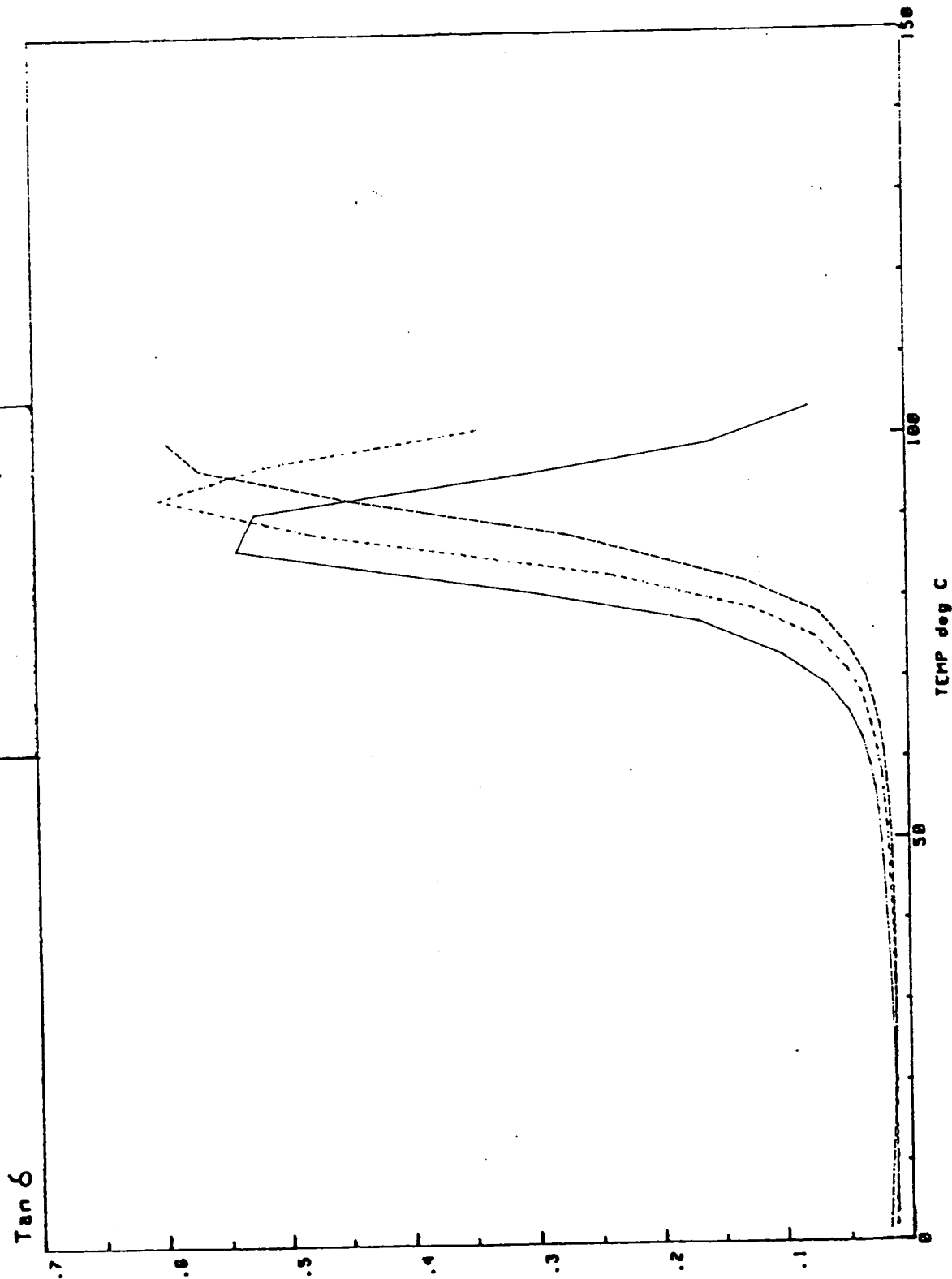
--- 10 Hz
- - - 1 Hz
... 0.1 Hz

0.1, 1 & 10
STRAIN ≈ 4
2 degC/min
-LOG ϕ = 3.863
SINGLE CANT
4.6x11.3x13mm

Fig. 12

042897 26854830

EPOXY AL FORM



PL
DMTA

--- 10 Hz

- - - 1 Hz

0.1, 1 & 10

STRAIN = 0.4

2 degC/min

- LOG = 3.978

SINGLE CANT

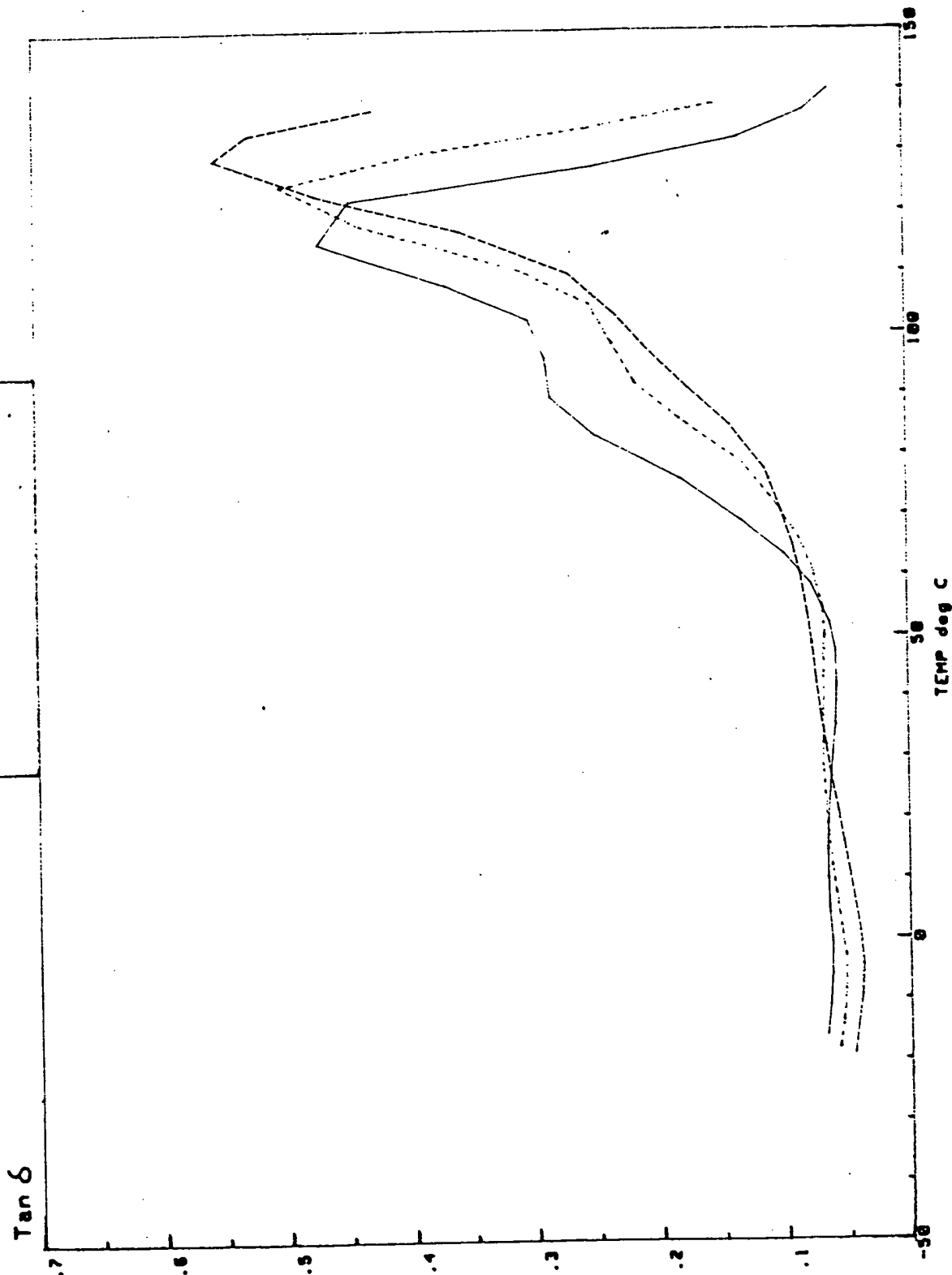
4.31 x 10.35 x 19

TEMP deg C

E1 B17

268240" 26854880

ACRYLIC AL FORM



PLA
DMTA

--- 10 Hz

.... 1 Hz

— 0.1 Hz

0.1, 1 & 10

STRAIN = 4

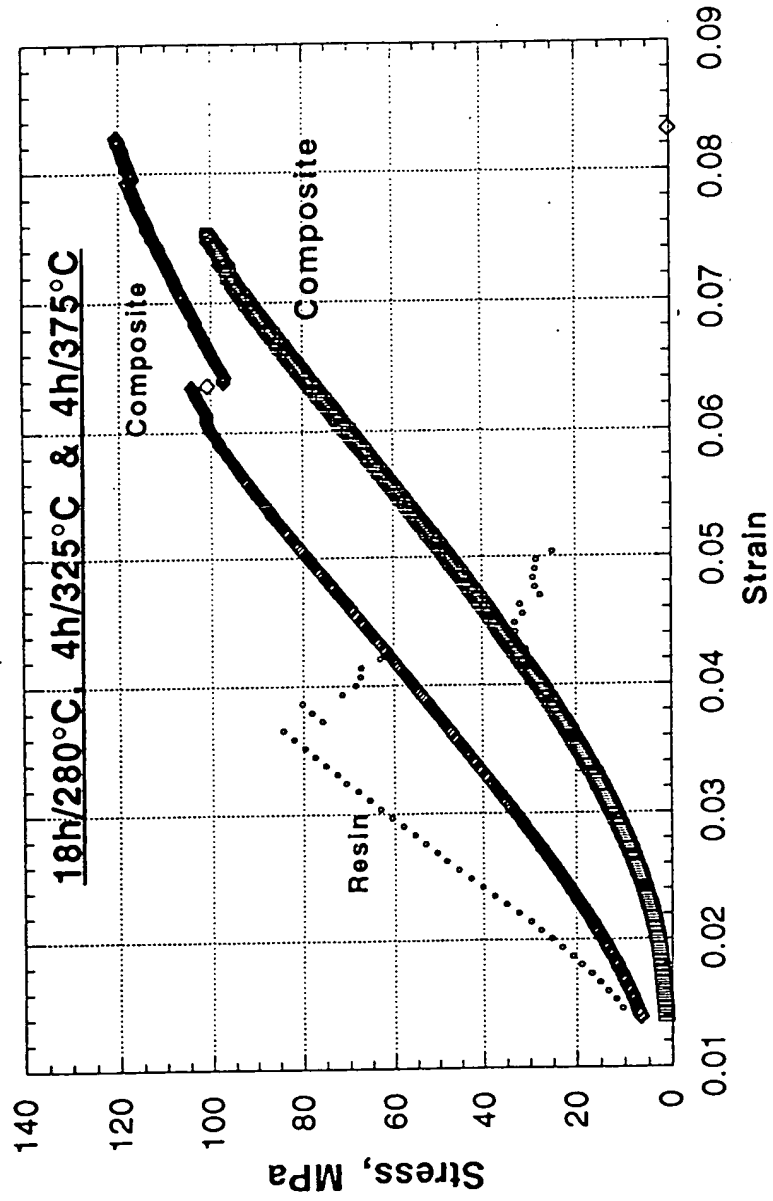
3 degC/min

-LOGE = 4.895

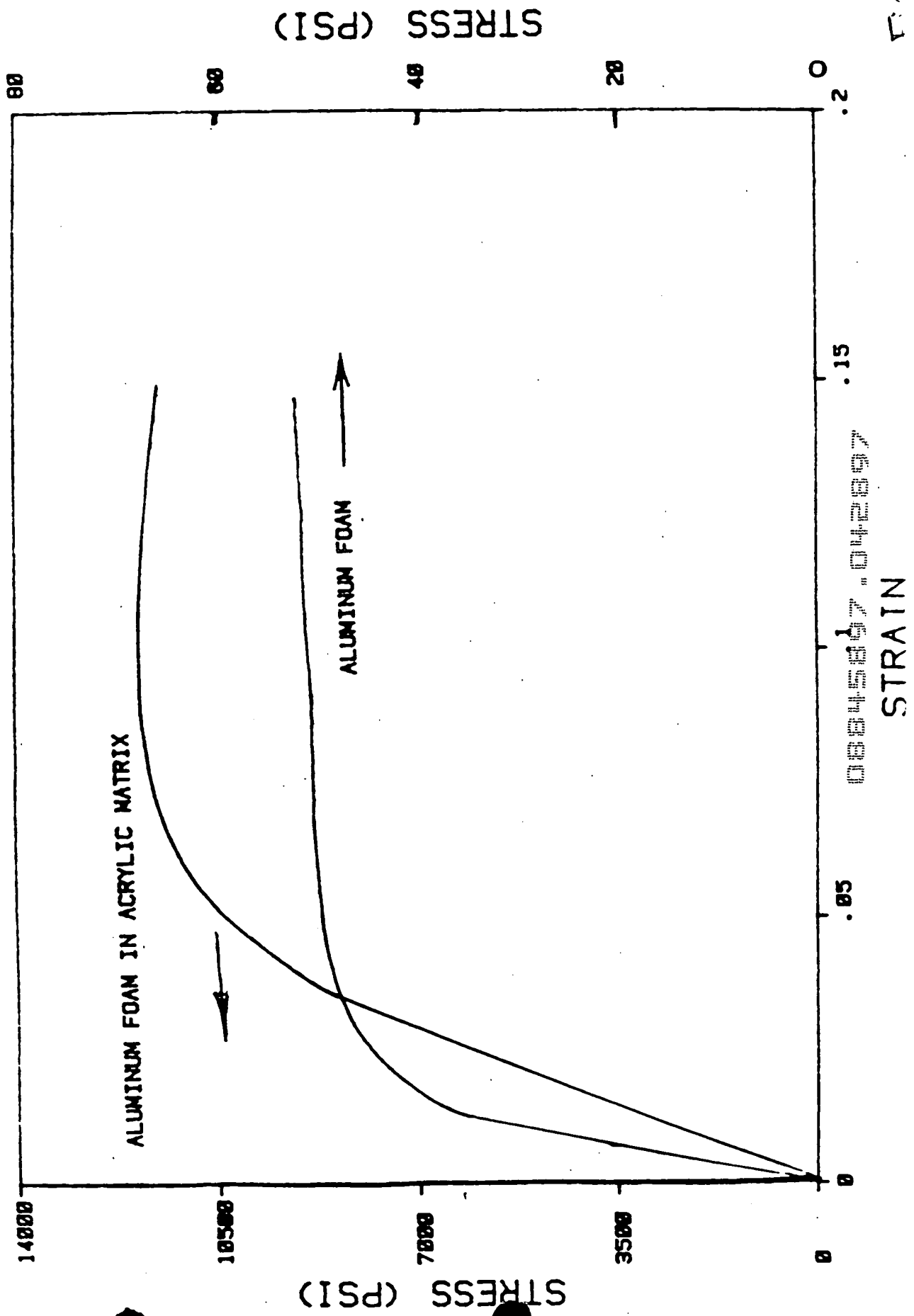
SINGLE CANT

3.834x10.94x19mm

Fig. 14



STRESS VS STRAIN



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